



Practitioner's Docket No. 1012-108D1(2000-098DIV1)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Mansky
Serial No.: Unknown
Filed: Herewith
For: HIGH THROUGHPUT MECHANICALRAPID SERIAL PROPERTY TESTING
OF MATERIALS LIBRARIES

Group Art Unit: Unknown
Examiner: Unknown

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants submit this statement in accordance with their duty of disclosure under 37 CFR 1.56 and 1.97-1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

A listing of the references on forms PTO/SB/08A and PTO/SB/08B are submitted herewith. Copies of the references have not been provided due to their presence in the parent application except Chuang, which is newly cited. Applicants respectfully solicit the Examiner's consideration of the cited references and entry thereof into the record of this application.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of 3

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Application Number	09/939,252
Filing Date	08/24/2001
First Named Inventor	Paul Mansky
Group Art Unit	1754
Examiner Name	

Attorney Docket Number 1012-108(2000-089)

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet

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Application Number	09/939,252
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First Named Inventor	Paul Mansky
Group Art Unit	1754
Examiner Name	

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		5,776,359		Schultz et al.	07/07/1998	
		5,959,297		Weinberg et al.	09/28/1999	
		5,985,356		Schultz et al.	11/16/1999	
		6,004,617		Schultz et al.	12/21/1999	
		6,013,199		McFarland et al.	01/11/2000	
		6,030,917		Weinberg et al.	02/29/2000	
		6,034,775		McFarland et al.	03/07/2000	
		6,034,240		La Pointe	03/07/2000	
		6,043,363		LaPointe et al.	03/28/2000	
		6,045,671		Wu et al.	04/04/2000	
		6,087,181		Cong	07/11/2000	
		6,124,476		Guram et al.	09/26/2000	
		6,151,123		Nielsen	11/21/2000	
		6,149,882		Guan et al.	11/21/2000	
		6,157,449		Hajduk	12/05/2000	
		6,175,409 B1		Nielsen et al.	01/16/2001	
		6,177,528 B1		LaPointe et al.	01/23/2001	
		6,182,499 B1		McFarland et al.	02/06/2001	
		6,187,164 B1		Warren et al.	02/13/2001	
		6,203,726 B1		Danielson et al.	03/20/2001	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴				
		WO 00	67086	Symyx Technologies, Inc.	11/09/2000		
		*WO 96	/11878	Reg. of the Univ. of California	04/25/1996		
		WO 00	36410	Symyx Technologies, Inc.	06/22/2000		
		WO 00	/40331	Symyx Technologies, Inc.	07/13/2000		
		*WO 00	/51720	Symyx Technologies, Inc.	09/08/2000		
		*WO 00	/17413	Symyx Technologies, Inc.	03/30/2000		
		WO 00	/23921	Symyx Technologies, Inc.	04/27/2000		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	09/939,252	
(use as many sheets as necessary)			Filing Date	08/24/2001	
			First Named Inventor	Paul Mansky	
			Group Art Unit	1754	
			Examiner Name		
Sheet	1	of	1	Attorney Docket Number	1012-108(2000-089)

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		Number	Kind Code ² (if known)			
		6,242,623	B1	Boussie et al.	06/05/2001	
		6,225,487	B1	Guram	05/01/2001	
		6,225,550	B1	Hornbostel et al.	05/01/2001	
		6,248,540	B1	Weinberg et al.	06/19/2001	
		6,260,407	B1	Petro et al.	07/17/2001	
		6,265,601	B1	Guram et al.	07/24/2001	
		6,265,226	B1	Petro et al.	07/24/2001	
		6,268,513	B1	Guram et al.	07/31/2001	
		6,294,388	B1	Petro	09/25/2001	
		6,296,771	B1	Miroslav	10/02/2001	
		6,092,414		Newman	07/25/2000	
		6,050,138		Lynch et al.	04/18/2000	
		6,040,193		Winkler et al.	03/21/2000	
		6,033,913		Morozov et al.	03/07/2000	
		6,010,616		Lewis et al.	01/04/2000	
		5,999,887		Giannakopoulos et al.	12/07/1999	
		5,922,967		Motoyama	07/13/1999	
		5,892,157		Syre	04/06/1999	
		5,877,428		Scolton	03/02/1999	
		5,847,283		Finot et al.	12/08/1998	

FOREIGN PATENT DOCUMENTS

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		Filing Date	08/24/2001
		First Named Inventor	Paul Manksy
		Group Art Unit	1754
		Examiner Name	
		Attorney Docket Number	1012-108(2000-089)
Sheet	1	of	1

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Filing Date	08/24/2001
First Named Inventor	Mansky
Art Unit	2855
Examiner Name	Mack

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

Attorney Docket Number 1012-108

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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			Group Art Unit	1754
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Sheet	1	of	3	Attorney Docket Number
			1012-108(2000-089)	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Kind Code ² (if known)					
		1,870,412	Kennedy	08/09/1932	
		3,071,961	Heigl et al.	01/08/1963	
		3,675,475	Weinstein	07/11/1972	
		3,713,328	Aritomi	01/30/1973	
		3,798,960	Glass	03/26/1974	
		3,805,598	Corcoran	04/23/1974	
		3,818,751	Karper et al.	06/25/1974	
		3,849,874	Jeffers	11/26/1974	
		3,895,513	Richardson	07/22/1975	
		3,908,441	Virloget	09/30/1975	
		3,933,032	Tschoegl	01/20/1976	
		4,229,979	Greenwood	10/28/1980	
		4,447,125	Lazay et al.	05/08/1984	
		4,517,830	Gunn, deceased et al.	05/21/1985	
		4,567,774	Manahan et al.	02/04/1986	
		4,570,478	Soong	02/18/1986	
		4,599,219	Cooper et al.	07/08/1986	
		4,602,501	Hirata	07/29/1986	
		4,680,958	Ruelle et al.	07/21/1987	
		4,685,328	Huebner et al.	08/11/1987	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office ³	Number ⁴	Kind Code ⁵ (if known)	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		JP	402297040A	Akaha Toru	12/07/1990
		WO	96/11878	The Reg. of the Univ. of Calif.	04/25/1996
		WO	00/51720	Symyx Technologies, Inc.	09/08/2000
		WO	00/17413	Symyx Technologies	03/30/2000
		WO	01/79949 A2	Symyx Technologies, Inc.	10/25/2001
		WO	98/15501	Symyx Technologies, Inc.	04/16/1998
		WO	99/18431	Symyx Technologies, Inc.	04/15/1999
		EP	0 317 356 A2	Chichibu Cement Kabushiki	05/24/1989

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		Number	Kind Code ² (if known)			
	4,740,078			Daendliker et al.	04/26/1988	
	4,749,854			Martens	06/07/1988	
	4,789,236			Hodor et al.	12/06/1988	
	4,793,174			Yau	12/27/1988	
	4,829,837			Telfer	05/16/1989	
	4,893,500			Fink-Jensen	01/16/1990	
	4,899,575			Chu et al.	02/13/1990	
	4,932,270			Lurie et al.	06/12/1990	
	5,008,081			Blau et al.	04/16/1991	
	5,051,239			von der Goltz	09/24/1991	
	5,115,669			Fuller et al.	05/26/1992	
	5,142,900			Duke	09/01/1992	
	5,193,383			Burnham et al.	03/16/1993	
	5,236,998			Lundeen et al.	08/17/1993	
	5,271,266			Eschbach	12/21/1993	
	5,272,912			Katsuzaki	12/28/1993	
	5,280,717			Hoseney et al.	01/25/1994	
	5,303,030			Abraham et al.	04/12/1994	
	5,305,633			Weissenbacher et al.	04/26/1994	
	5,452,619			Kawanabe et al.	09/26/1995	

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Sheet	1	of	0
		Attorney Docket Number 1012-108(2000-089)	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	T ²
	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
	*U.S. Application Serial No. 09/420,334 entitled " Graphic Design of Combinatorial Material Libraries" (Lacy, et al.) filed on October 18, 1999	
	*U.S. Patent Application Serial No. 09/305,830 titled "Synthesizing Combinatorial Libraries of Materials" (Rust, et al.) filed on May 5, 1999	
	*U.S. Application Serial No. 09/550,549 entitled "Automated Process Control And Data Management System And Methods" (Crevier, et al.) filed on April 14, 2000	
	*U.S. Application Serial No. 09/755,623 entitled "Laboratory Database System and Methods For Combinatorial Materials Research" (Dorsett, Jr., et al.) filed on January 5, 2001.	
	*The family of applications for U.S. Application Serial No. 09/227,558 entitled, "Apparatus and Method of Research for Creating and Testing Novel Catalysts, Reactions and Polymers" (Turner et al.) filed January 8, 1999	
	*The family of applications for U.S. Application Serial No. 09/211,982 entitled "Parallel Reactor With Internal Sensing" (Turner et al.) filed December 14, 1998	
	*U.S. Application Serial No. 09/235,368 entitled "Polymerization Method From the Combinatorial Synthesis and Analysis of Organometallic Compounds and Catalysts" (Weinberg et al.) filed on January 21, 1999	
	*U.S. Provisional Application Serial No. 60/122,704 entitled "Controlled, Stable Free Radical Emulsion and Water-Based Polymerizations" (Klaerner et al.) filed on March 9, 1999	
	The family of applications for U.S. Application Serial No. 09/156,827 entitled "Formation of Combinatorial Arrays of Materials Using Solution-Based Methodologies" (Giaquinta et al.) filed September 18, 1998	
	*The family of applications for U.S. Application Serial No. 09/567,598 entitled "Polymer Libraries on a Substrate, Method for Forming Polymer Libraries on a Substrate and Characterization Methods with Same" (Boussie et al.) filed May 10, 2000	
	U.S. Application Serial No. 09/579,338 entitled "Rheo-Optical Indexer and Method of Screening and Characterizing Arrays of Materials" (Carlson et al.) filed on May 25, 2000	

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(use as many sheets as necessary)		Filing Date	08/24/2001
Sheet	1	First Named Inventor	Paul Manksy
		Group Art Unit	1754
		Examiner Name	
Sheet	1	of 0	Attorney Docket Number
		1012-108(2000-089)	

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Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		*ODIAN, Principles of Polymerization, 3rd Ed., John Wiley & Sons, Inc. (1991)
		YOUNG, W.C., Roark's Formulas for Stress and Stain, 1989
		*TIMOSHENKO, S., Theory of Plates and Shells, McGraw-Hill, New York 1940
		OSTERBERG, Peter M. and Stephen D. Senturia, "M-TEST: A Test Chip for MEMS Material Property Measurement Using Electrostatically Actuated Test Structures," Journal of Microelectromechanical Systems, Vol. 6, No. 2, June 1997
		KIM, J.O. and B. Lewis Slaten, "Objective Assessment of Fabric Handle in Fabrics Treated With Flame Retardants," Journal of Testing and Evaluation, JTEVA, Vol. 24, No. 4, July 1996, pp. 223-228.
		GROVER, G. et al., "A Screening Technique for Fabric Handle", J. Text. Inst., 1993, 84 No. J. Textile Institute, pp. 486-494.
		PAN, NING and K.C. Yen, "Physical Interpretations of Curves Obtained Through the Fabric Extraction Process for Handle Measurement," Textile Research Journal 62(5), pp. 279-290 (1992).
		"Handle-O-Meter", Thwing-Albert Instrument Company, Philadelphia, PA.
		RAEEL, MASTURA and Jiang Liu, "An Empirical Model for Fabric Hand" Textile Research Journal 62, 1, pp. 31-38 (1991).
		ALI, S.I. and Shahida Begum, "Fabric Softeners and Softness Perception", Ergonomics, v.37, No. 5, pp. 801-806 (1994).

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		U.S. Patent Application Serial No. 09/939,404 entitled "High Throughput Mechanical Property and Bulge Testing of Material Libraries," (D. Hajduk et al.) filed on August 24, 2001.
		U.S. Patent Application Serial No. 09/939,139 entitled "High Throughput Fabric Handle Screening," (M. Kossuth et al.) filed on August 24, 2001.
		U.S. Patent Application Serial No. 09/939,149 entitled "High Throughput Rheological Testing of Materials," (P. Mansky et al.) filed on August 24, 2001.
		U.S. Patent Application Serial No. 09/939,263 entitled "High Throughput Mechanical Property Testing of Materials Libraries Using Capacitance," (D. Hajduk et al.) filed on August 24, 2001.
		U.S. Patent Application Serial No. 09/938,994 entitled "High Throughput Mechanical Property Testing of Materials Libraries Using a Piezoelectric," (D. Hajduk) filed on August 24, 2001.
		The family of applications for U.S. Patent Application Serial No. 09/580,024 entitled "Instrument for High Throughput Measurement of Material Physical Properties and Method of Using Same," (Carlson, et al.) filed on May 26, 2000
		*The family of applications for U.S. Patent Application Serial No. 09/174,856 titled "Graphic Design of Combinatorial Material Libraries" (Lacy, et al.) filed on October 19, 1998.
		U.S. Application Serial No. 09/801,165 entitled "Method and Apparatus for Characterizing Materials By Using a Mechanical Resonator" filed March 7, 2001
		U.S. Application Serial No. 09/578,997 entitled "High Throughput Viscometer and Method of Using Same" filed May 25, 2000
		*PCT Application No. PCT/US01/11417 entitled "Automated Process Control And Data Management System And Methods", filed 4/6/2001

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		U.S. Application Serial No. 09/420,334 entitled " Graphic Design of Combinatorial Material Libraries" (Lacy, et al.) filed on October 18, 1999
		U.S. Patent Application Serial No. 09/305,830 titled "Synthesizing Combinatorial Libraries of Materials" (Rust, et al.) filed on May 5, 1999
		U.S. Application Serial No. 09/550,549 entitled "Automated Process Control And Data Management System And Methods" (Crevier, et al.) filed on April 14, 2000
		U.S. Application Serial No. 09/755,623 entitled "Laboratory Database System and Methods For Combinatorial Materials Research" (Dorsett, Jr., et al.) filed on January 5, 2001.
		The family of applications for U.S. Application Serial No. 09/227,558 entitled, "Apparatus and Method of Research for Creating and Testing Novel Catalysts, Reactions and Polymers" (Turner et al.) filed January 8, 1999
		U.S. Application Serial No. 09/235,368 entitled "Polymerization Method From the Combinatorial Synthesis and Analysis of Organometallic Compounds and Catalysts" (Weinberg et al.) filed on January 21, 1999
		U.S. Provisional Application Serial No. 60/122,704 entitled "Controlled, Stable Free Radical Emulsion and Water-Based Polymerizations" (Klaerner et al.) filed on March 9, 1999
		The family of applications for U.S. Application Serial No. 09/567,598 entitled "Polymer Libraries on a Substrate, Method for Forming Polymer Libraries on a Substrate and Characterization Methods with Same" (Boussie et al.) filed May 10, 2000
		The family of applications for U.S. Patent Application Serial No. 09/174,856 titled "Graphic Design of Combinatorial Material Libraries" (Lacy, et al.) filed on October 19, 1998.
		ODIAN, Principles of Polymerization, 3rd Ed., John Wiley & Sons, Inc. (1991)
		TIMOSHENKO, S., Theory of Plates and Shells, McGraw-Hill, New York 1940

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		"DMA 2980 Dynamic Mechanical Analyer," http://www.tainst.com/dma2.html , 12/29/00
		"Introducing the NEW DMTA V!", http://www.rheometricscientific.com/dmtaV.htm , 12/29/00
		"Standard Test Method for Rubber Property-International Hardness," American Society for Testing and Materials
		AMITAY-SADOVSKY, ELLA and H. Daniel Wagner, "Evaluation of Young's Modulus of Polymers from Knoop Microindentation Tests" Polymer Communications, 1998, vol. 39, no. 11, pp. 2387-2390.
		CALLEJA, F.J. BALTA, "Microhardness Studies of Polymers and Their Transitions" TRIP, December 1994, vol. 2, no. 12, pp. 419-425
		BOWLT, C., "A Simple Capillary Viscometer" Physics Education, March 1975, vol. 10, no. 2, pp. 102-103
		LACOMBE, ROBERT H. and Jeremy Greenblatt, "Mechanical Properties of Thin Polyimide Films" pp. 647-668
		SHINOZAKI, D.M. and Y. Lu, "Micro-Indentation Relaxation Measurements in Polymer Thin Films" Journal of Electronic Materials, 1997, vol. 26, no. 7, pp. 852-858
		WIERENGA, P.E. and A.J.J. Franken, "Ultramicroindentation Apparatus for the Mechanical Characterization of Thin Films" J. Appl. Phys., June 15, 1984, 55 (12).
		European Search Report dated December 10, 2001
		H.K. Chuang, C. Chiu and R. Paniagua, Avery Dennison, Pasadena, Calif. "Avery Adhesive Test Yields More Performance Data Than Traditional Probe" Adhesives Age September 1997

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